



PTO/SB/08A (08-03)

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1

of

7

Complete if Known

Application Number	09/687,401
Filing Date	October 13, 2000
First Named Inventor	Manger, Ian David
Art Unit	1743
Examiner Name	Soderquist, Arlen
Attorney Docket Number	020174-002300US

U.S. PATENT DOCUMENTS+

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code ² (if known)			
ab	A1	US-3,570,515	03-16-1971	Kinner	
	A2	US-3,747,828	07-24-1973	Holster et al.	
	A3	US-4,046,159	09-08-1977	Pegourie	
	A4	US-4,119,368	10-10-1978	Yamakazi	
	A5	US-4,153,855	05-08-1979	Feingold	
	A6	US-4,245,673	01-20-1981	Bouteille et al.	
	A7	US-4,434,704	03-06-1984	Surjaatmadja	
	A8	US-4,898,582	02-08-1990	Faste	
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	A10	US-5,088,515	02-18-1992	Kamen	
	A11	US-5,096,388	03-17-1992	Weinberg	
	A12	US-5,128,115	06-30-1992	Fujita et al.	
	A13	US-5,164,558	11-17-1992	Huff et al.	
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	A15	US-5,224,843	07-06-1993	Van Lintel	
	A16	US-5,259,737	11-09-1993	Kamisuki et al.	
	A17	US-5,265,327	11-30-1993	Faris et al.	
	A18	US-5,290,240	03-01-1994	Horres, Jr.	
	A19	US-5,336,062	08-09-1994	Richter	
	A20	US-5,346,372	09-13-1994	Naruse et al.	
	A21	US-5,375,979	12-27-1994	Trah	
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	A25	US-5,529,465	06-25-1996	Zengerle et al.	
	A26	US-5,593,130	01-14-1997	Hansson et al.	
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	A28	US-5,659,171	08-19-1997	Young et al.	
	A29	US-5,660,370	08-26-1997	Webster	
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	A31	US-5,705,018	01-06-1998	Hartley	
	A32	US-5,759,014	06-02-1998	Van Lintel	
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	A38	US-5,932,789	08-03-1999	Moles	
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	A40	US-6,007,309	12-28-1999	Hartley	
ga	A41	US-6,043,080	03-28-2000	Lipshutz et al.	

Examiner Signature	<i>Arlen Soderquist</i>	Date Considered	6/9/05
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60200000 v1



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		Art Unit	1743		
Sheet	2	of	7	Examiner Name	Soderquist, Arlen
				Attorney Docket Number	020174-002300US

U.S. PATENT DOCUMENTS+					
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AS	A42	US-6,123,769	09-26-2000	Sanjoh	
	A43	US-6,155,282	12-05-2000	Zachary et al.	
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AS	A46	US-6,409,832 B1	06-25-2002	Weigl et al.	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
AS	B1	EPO	EP 0 592 094	A2	04-13-1994			<input type="checkbox"/>
	B2	EPO	EP 0 703 364	A1	03-27-1996		no translation	<input type="checkbox"/>
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	B5	EPO	EP 0 829 360	A2	03-18-1998			<input type="checkbox"/>
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	B7	EPO	EP 0 999 055	A2	05-10-2000			<input type="checkbox"/>
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	B9	GB	2 308 460	A	06-25-1997			<input type="checkbox"/>
	B10	PCT	WO 98/07069	A1	02-19-1998			<input type="checkbox"/>
	B11	PCT	WO 99/17093	A1	04-08-1999			<input type="checkbox"/>
	B12	PCT	WO 00/60345	A1	10-12-2000			<input type="checkbox"/>
AS	B13	PCT	WO 02/30486	A2	04-18-2002			<input type="checkbox"/>

Examiner Signature	Arlen Soderquist	Date Considered	6/14/05
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		Art Unit	1743		
		Examiner Name	Soderquist, Arlen		
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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
CS	C1	AHN et al., "Fluid Micropumps Based on Rotary Magnetic Actuators," Proceedings of 1995 IEEE Micro Electro Mechanical Systems Workshop (MEMS '95), held in Amsterdam, Netherlands on 1/29-2/2/1995, pgs. 408-412.	
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	C6	CHIU et al.; "Patterned Deposition of Cells and Proteins onto Surfaces by Using Three-Dimensional Microfluidic Systems", Proc. Natl. Acad. Sci., 2000, pp. 2408-2413, Vol. 97, No. 6	
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	C8	DELAMARCHE et al.; "Patterned delivery of immunoglobulins to surfaces using microfluidic networks", Science, 1997, pp. 779-781, Vol. 276	
	C9	DUFFY et al. "Patterning Electroluminescence Materials with Feature Sizes as Small as 5µm Using Elastomeric Membranes as Masks for Dry Lift-Off", Advanced Materials, 1999, pp. 546-552, Vol. 11, No. 7	
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	C13	FAHRENBERG et al. "A microvalve system fabricated by thermoplastic molding", J Micromech Microeng, 1995, pp.169-171, Vol. 5	
CS	C14	FU et al.; "A microfabricated fluorescence-activated cell-sorter", Nature Biotechnology, 1999, pp. 1109-1111, Vol. 17	
Examiner Signature	Arlen Soderquist		Date Considered 6/9/05

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CS	C15	GASS et al., "Integrated flow-regulated silicon micropump," Sensors and Actuators A Physical, 1994, p. 335-338, Vol. 43.	
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	C23	HOSOKAWA et al., "Handling of Picoliter Liquid Samples in a Poly(dimethylsiloxane)-Based Microfluidic Device," Anal. Chem., 1999, 71(20):4781-4785	
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AB	C27	JERMAN, H., "Electrically-Activated, Normally-Closed Diaphragm Valves," Proceedings of Transducers '91, 1991 International Conference on Solid-State Sensors and Actuators, pages 1045-1048 (1991).	

Examiner Signature	<i>Arten Soderquist</i>	Date Considered	
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<i>AS</i>	C28	JUNG et al., "Chemical and Physical Interactions at Metal/Self-Assembled Organic Monolayer Interfaces," Critical Reviews in Solid State and Material Sciences, 1994, pp. 1-54, Vol. 19, No. 1.	
	C29	KENIS et al. "Microfabrication Inside Capillaries Using Multiphase Laminar Flow Patterning," Science, 1999, 285:83-85.	
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	C41	PROTANA web site: "NanoES Products" from www.protana.com/products/default.asp on 09/19/2000.	
<i>AS</i>	C42	QIN et al., "Photolithography with transparent reflective photomasks," J. Vac.Sci. Technology, 16(1):98-103 (1998).	

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AS	C43	QIN et al., "Elastomeric Light Valves***", Adv. Mater., 1997, pp.407-410, Vol. 9, No. 5.	
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	C52	SOHN et al., "Capacitance cytometry: Measuring biological cells one by one," PNAS, 97(20):10687-10690 (2000).	
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	C55	VAN DE POL et al., "Micro Liquid Handling Devices - A Review", Micro Systems Technologies, 1990, pp. 799-805, Vol. 90.	
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CS	C57	VIEDER et al.; "A Pneumatically Actuated Micro Valve with a Silicon Rubber Membrane for Integration with Fluid Handling Systems", Proceedings of Transducers '95, the 8th International Conference on Solid-State Sensors and Actuators and Eurosensors IX, held in Stockholm, Sweden on 6/25-29/95, 1995, pp. 284-286, Stockholm, Sweden.	
	C58	WASHIZU et al., "Molecular Dielectrophoresis of Biopolymers," IEEE Transactions on Industry Applications, 1994, 30(4):835-843.	
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